

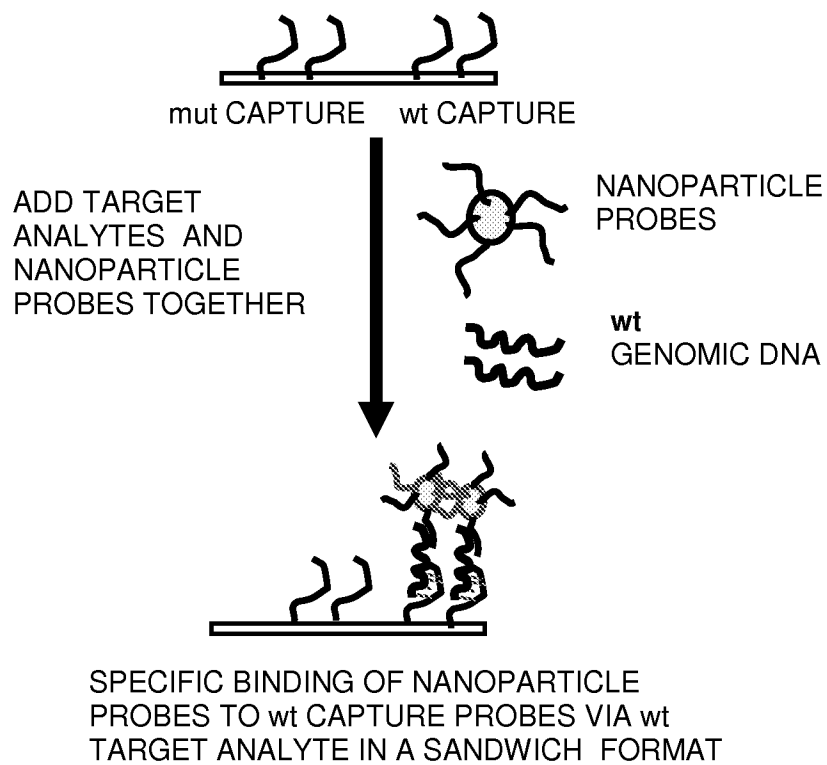
FIG. 1

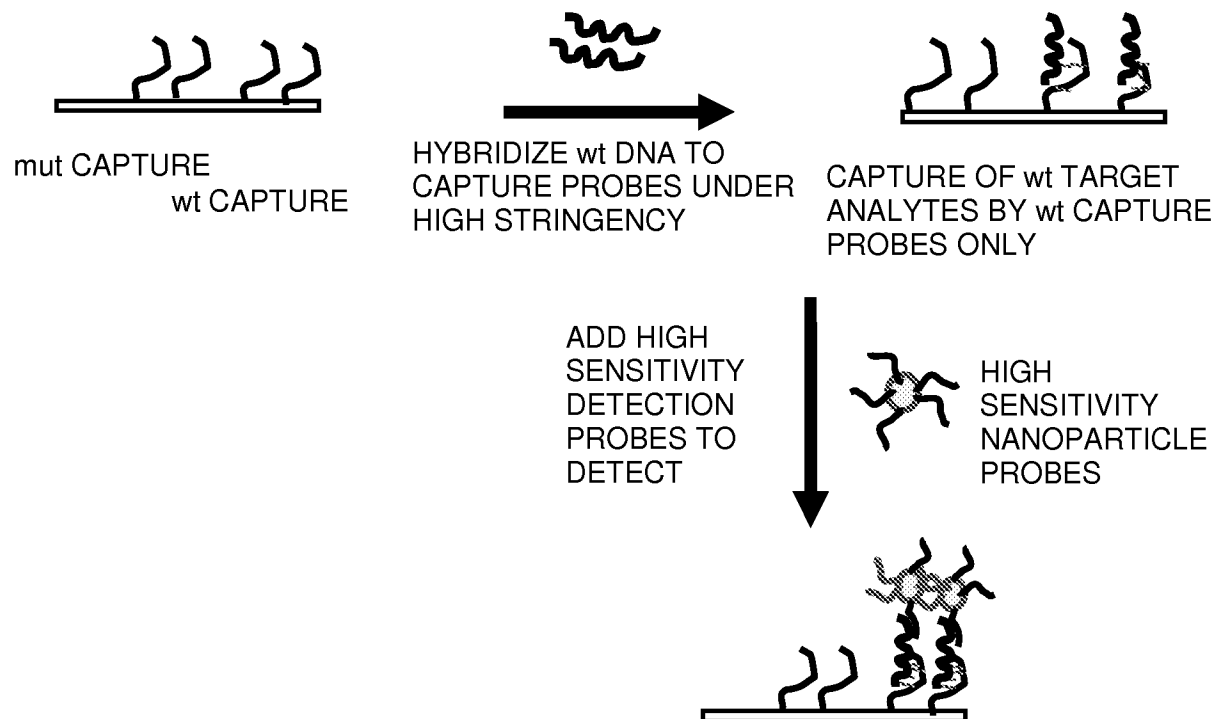
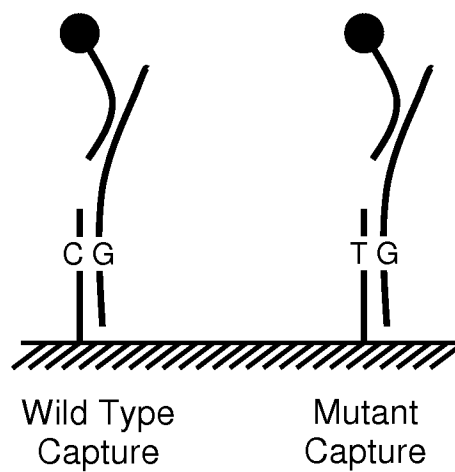
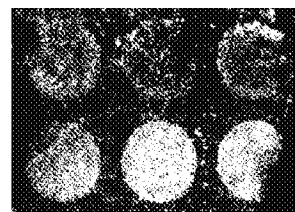
FIG. 2**FIG. 3**

FIG. 4A10ug OF
NORMAL HUMAN
GENOMIC DNA

Mut

WT

**FIG. 4B**10UG OF
SALMON SPERM
DNA

Mut

WT

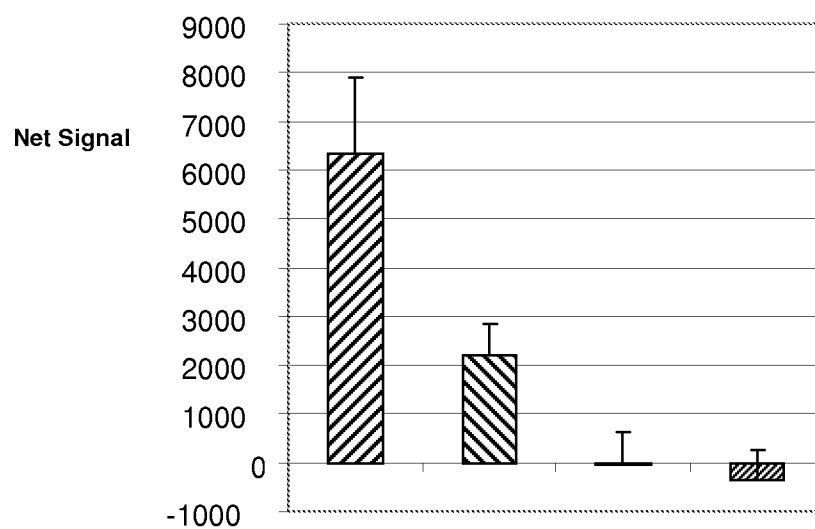
**FIG. 4C**

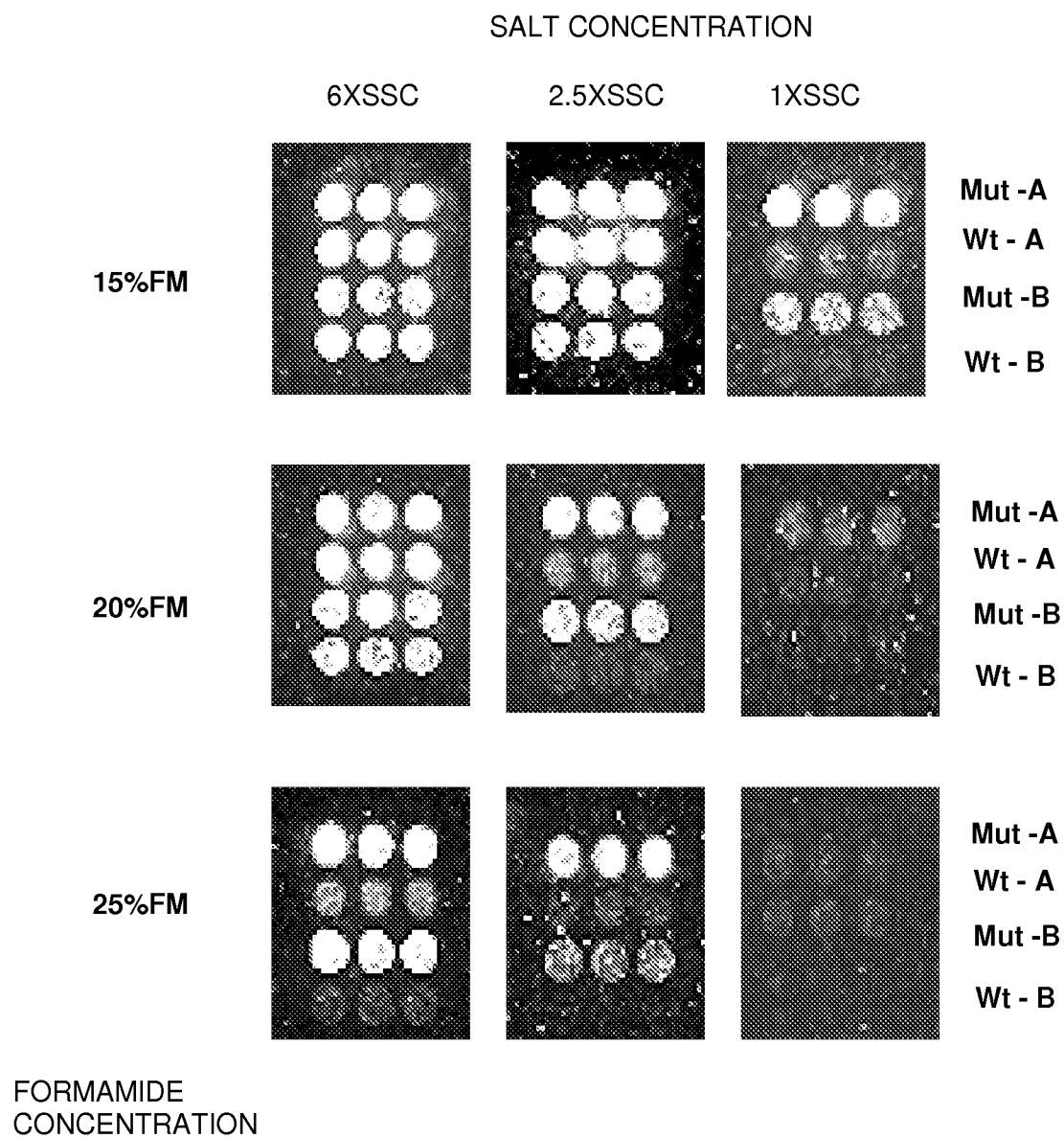
FIG. 5

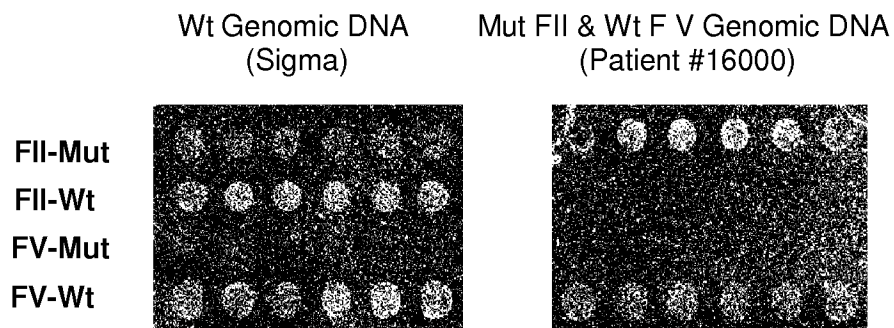
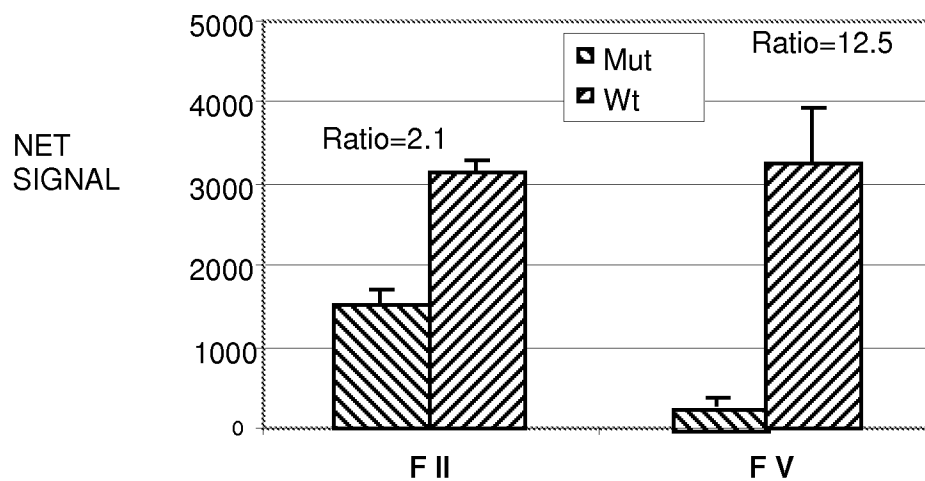
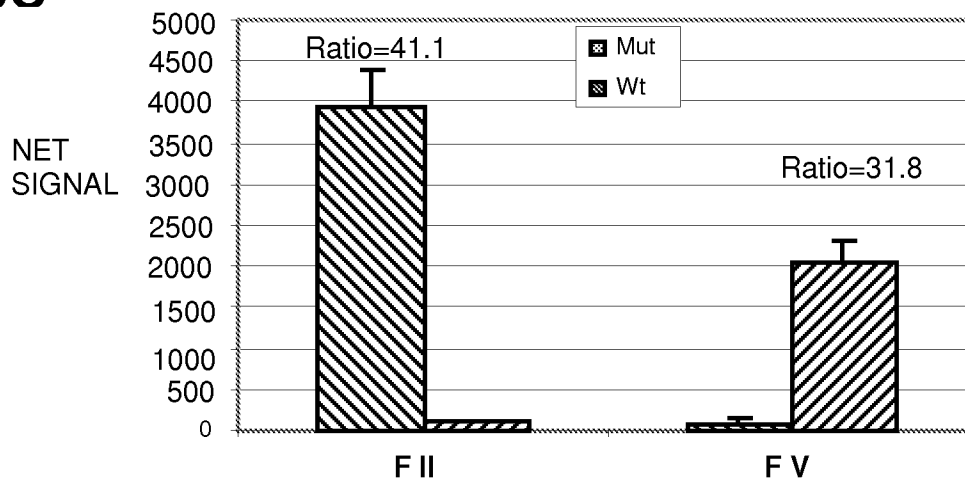
FIG. 6A**FIG. 6B****FIG. 6C**

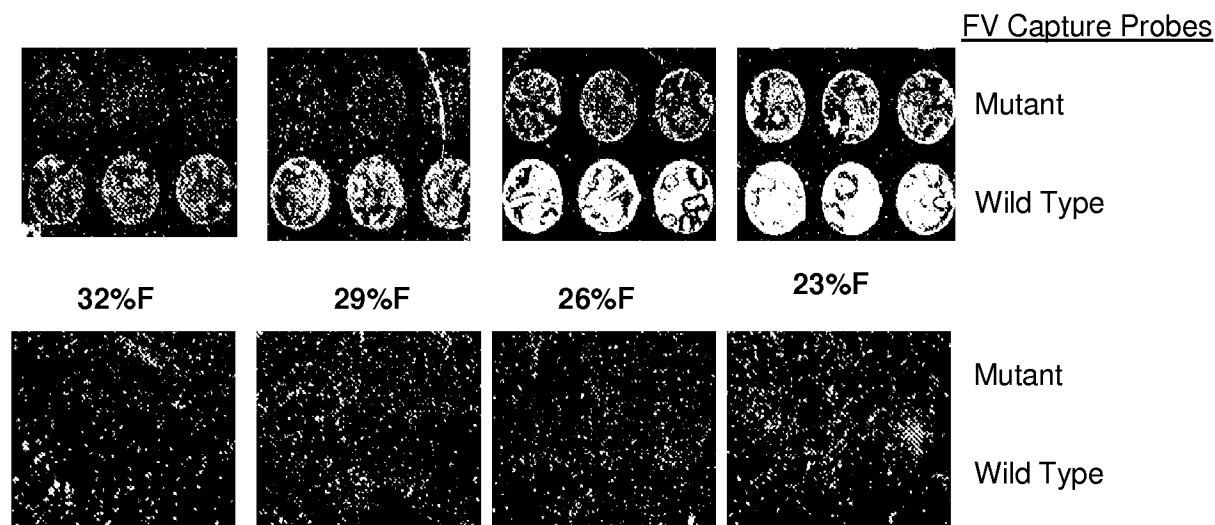
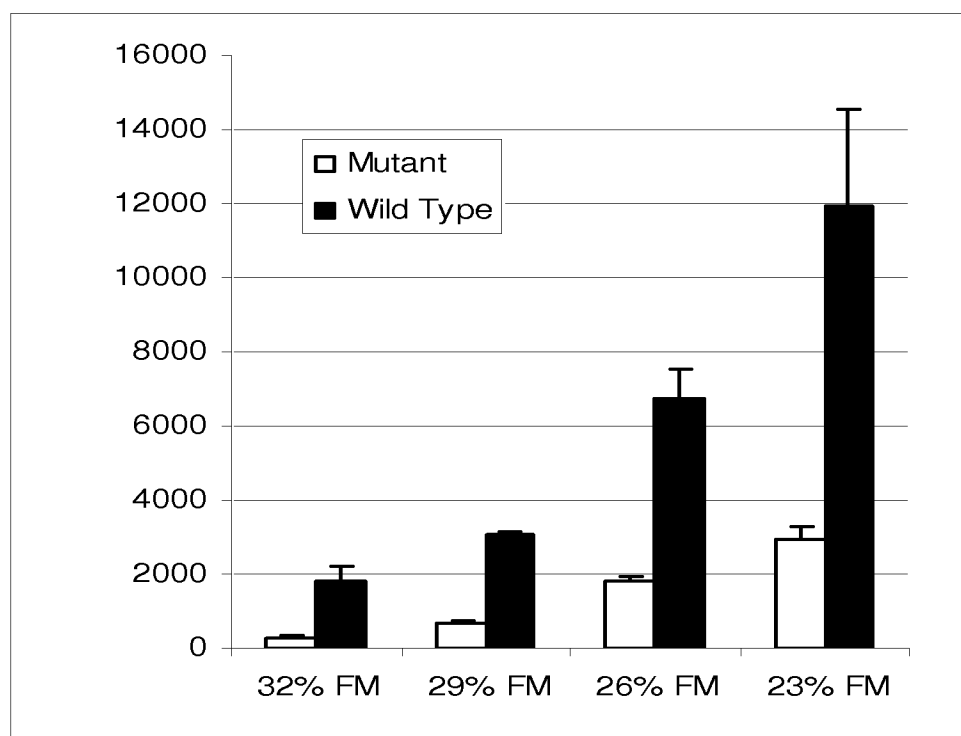
FIG. 7A**FIG. 7B**

FIG. 8

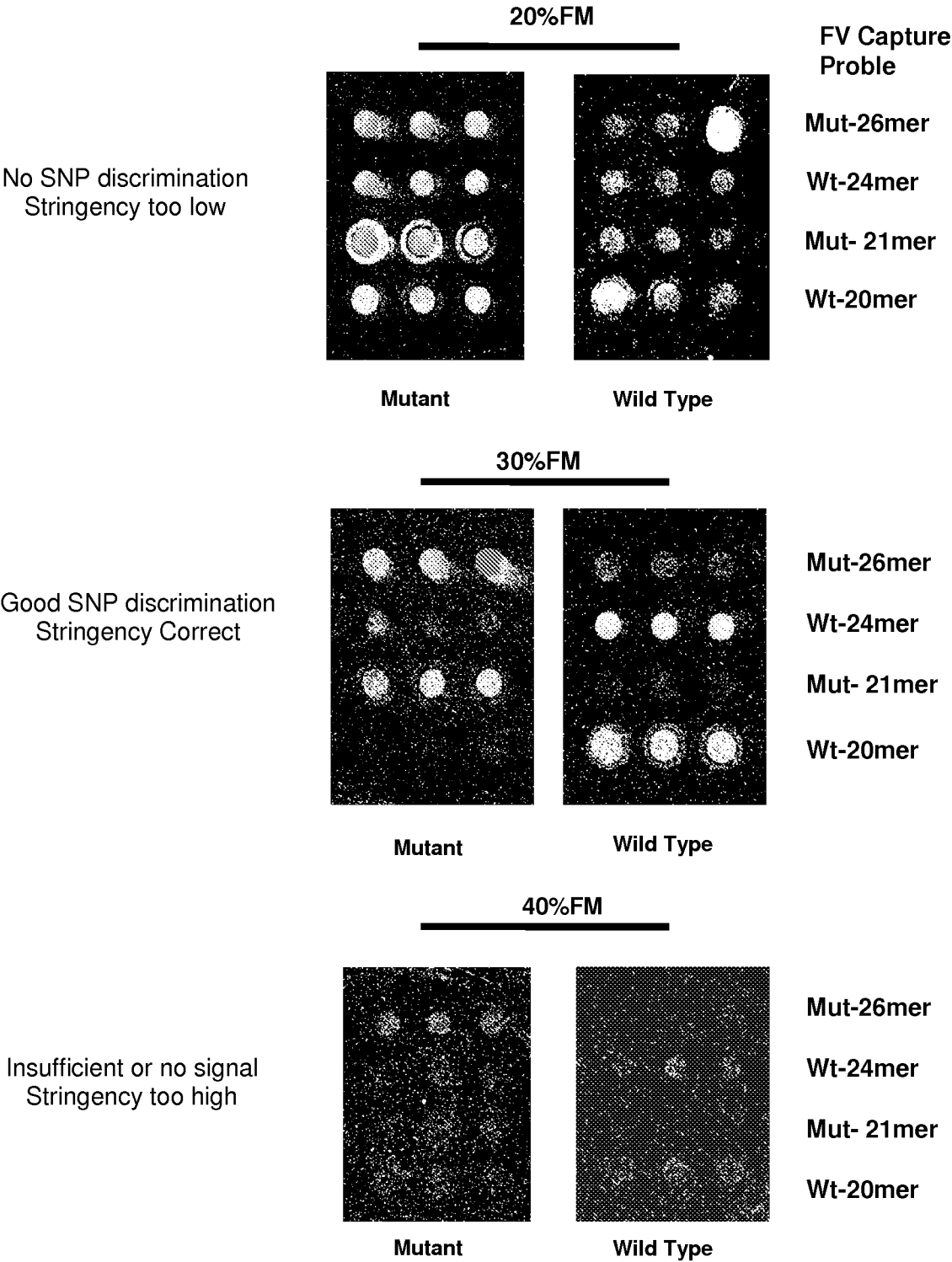
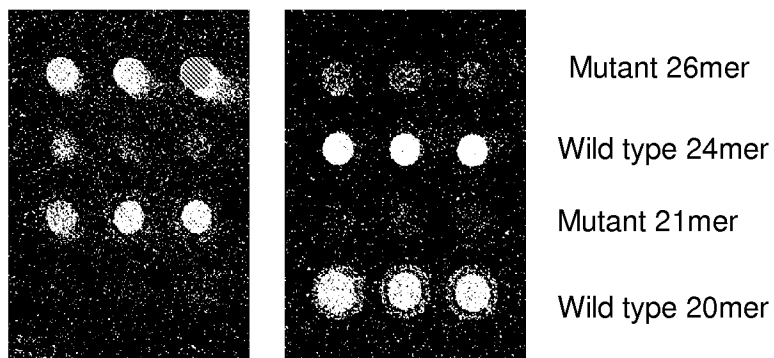
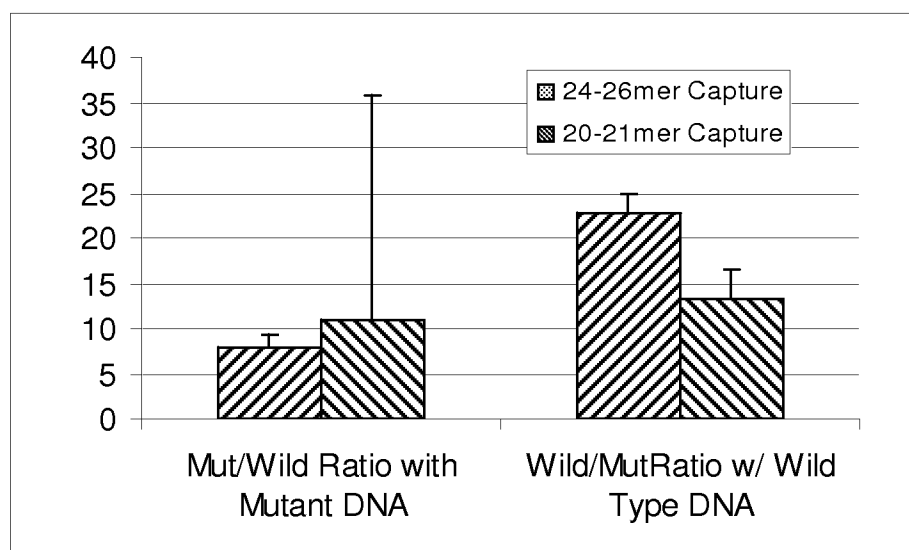
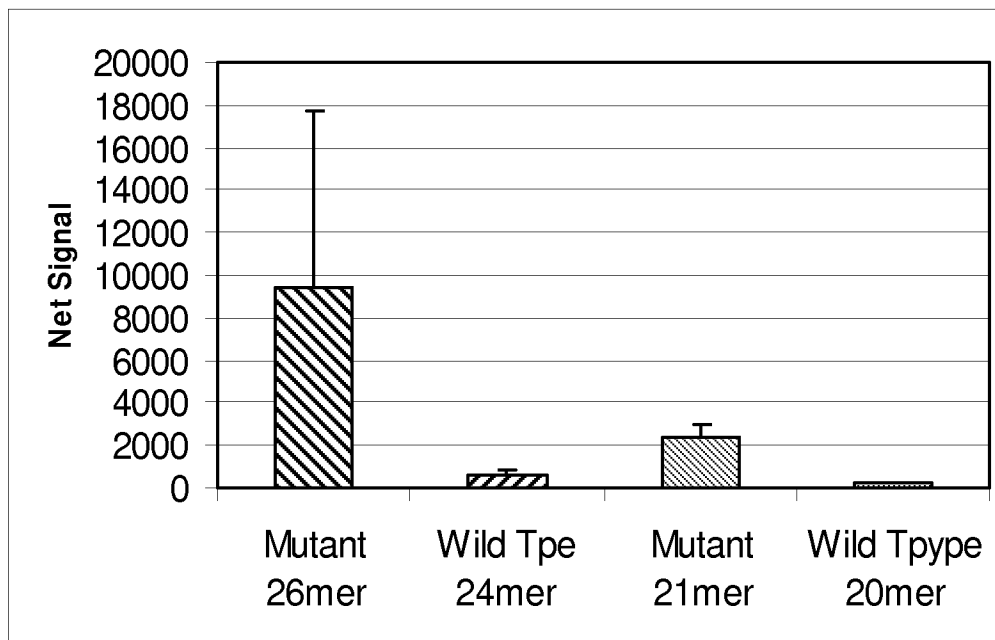


FIG. 9A**FIG. 9B**

RATIO OF SIGNAL INTENSITIES

FIG. 9C

HYBRIDIZATION WITH MUTANT GENOMIC DNA

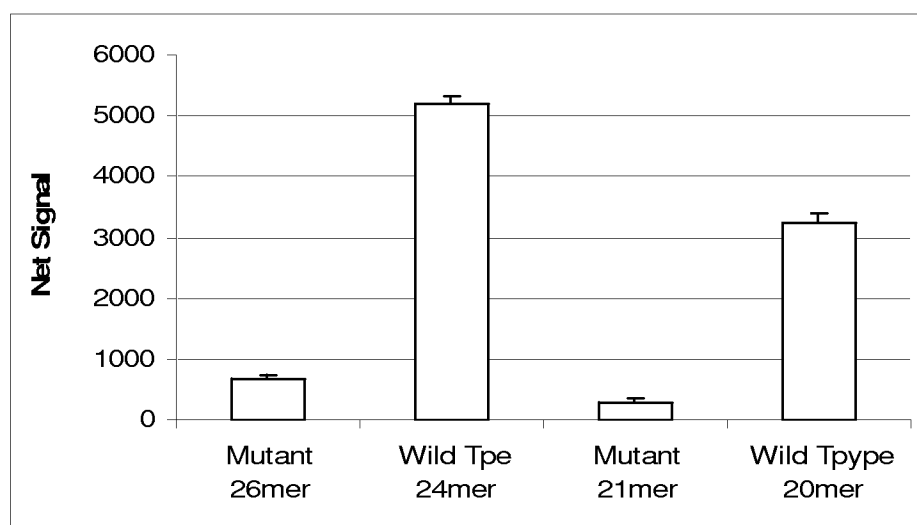
FIG. 9DHYBRIDIZATION WITH
WILD TYPE GENOMIC DNA

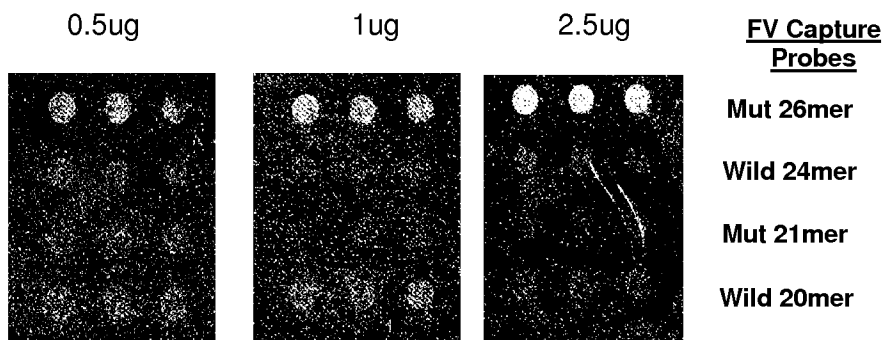
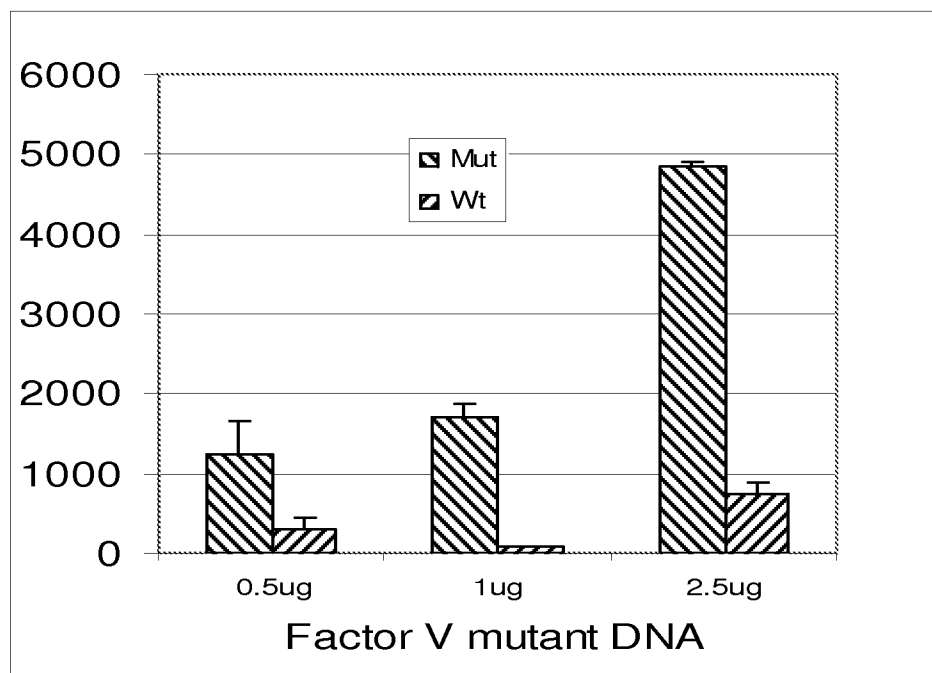
FIG. 10AIMAGES OF FAC.V ARRAY HYBRIDIZED
WITH MUTANT GENOMIC DNA.**FIG. 10B**SIGNAL INTENSITIES FOR MUTANT (26MER) AND
WILD TYPE (24MER) CAPTURE PROBES

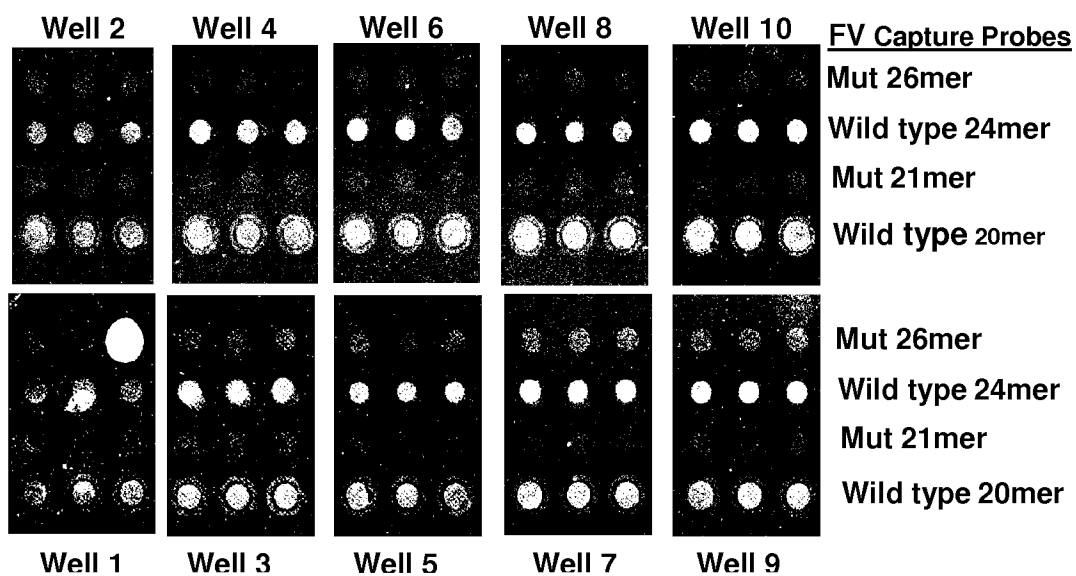
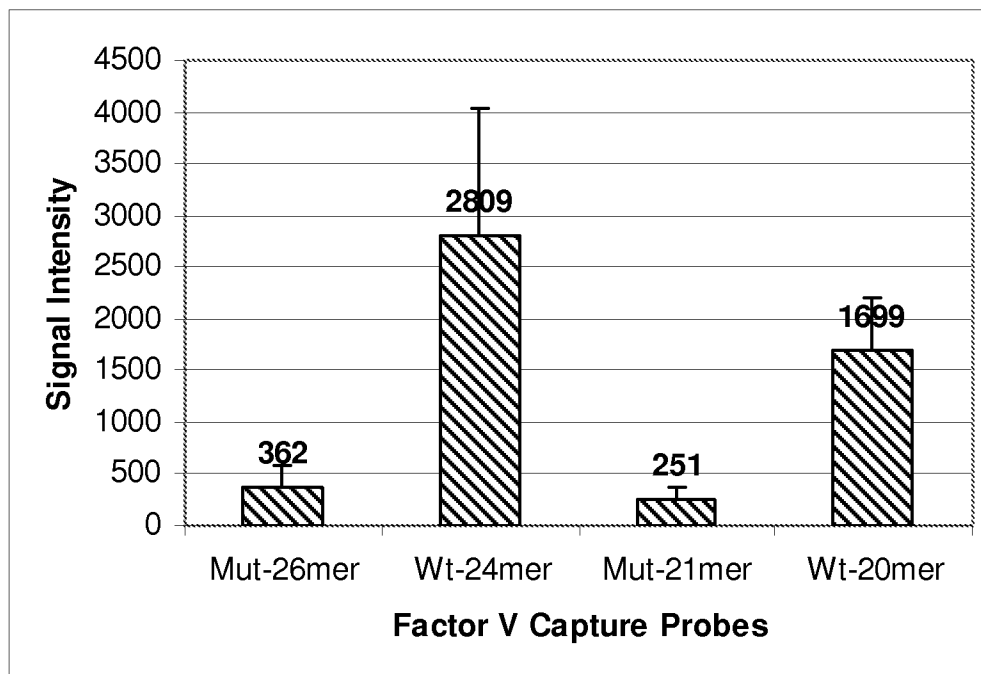
FIG. 11A**FIG. 11B**

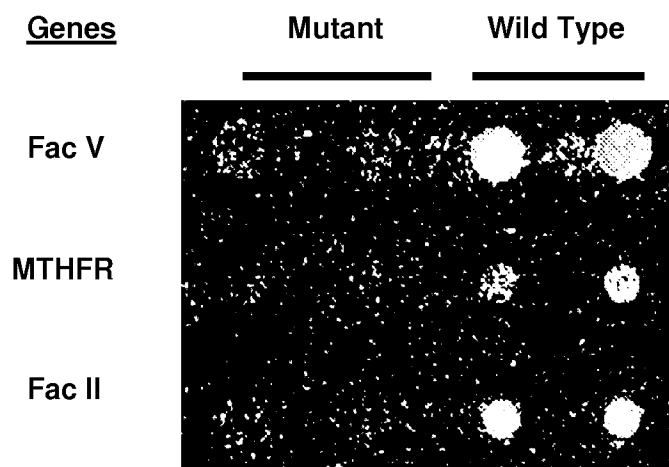
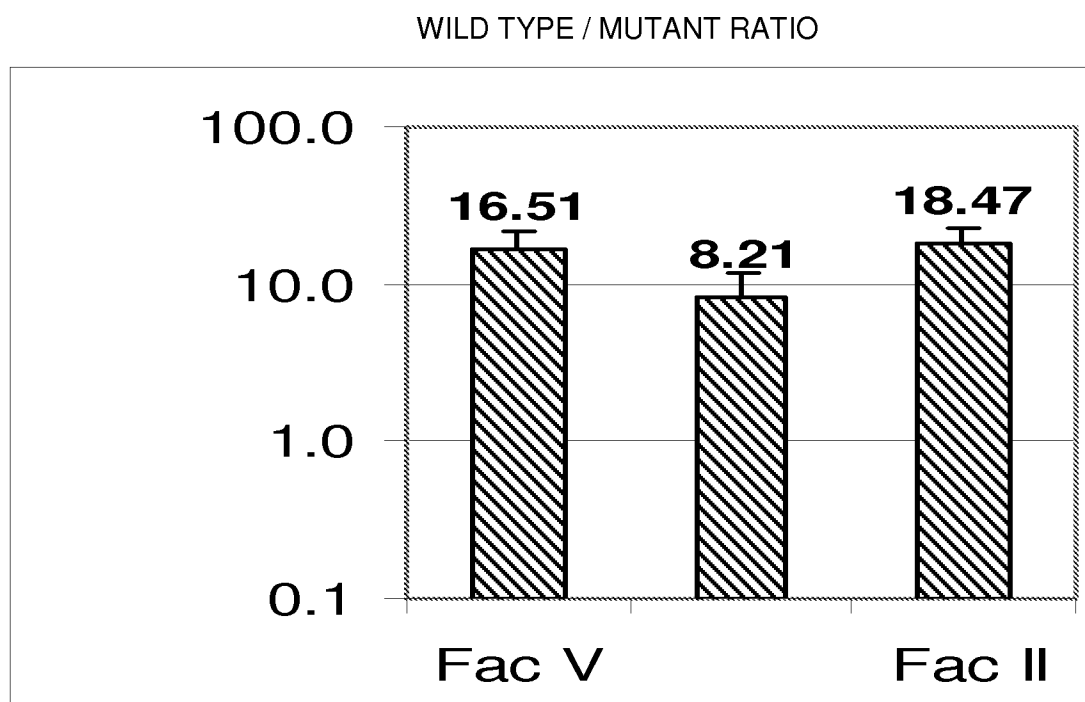
FIG. 12A**FIG. 12B**

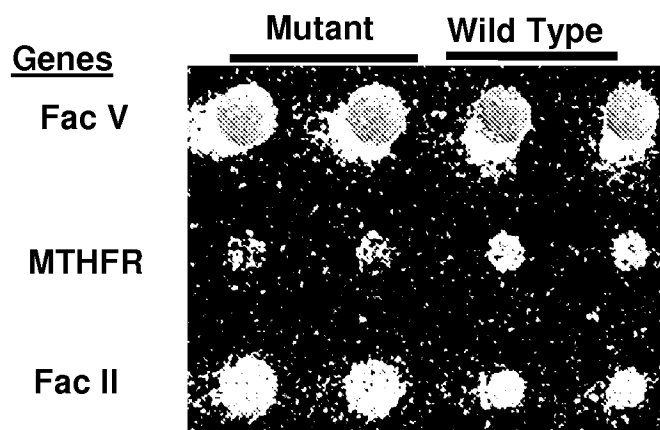
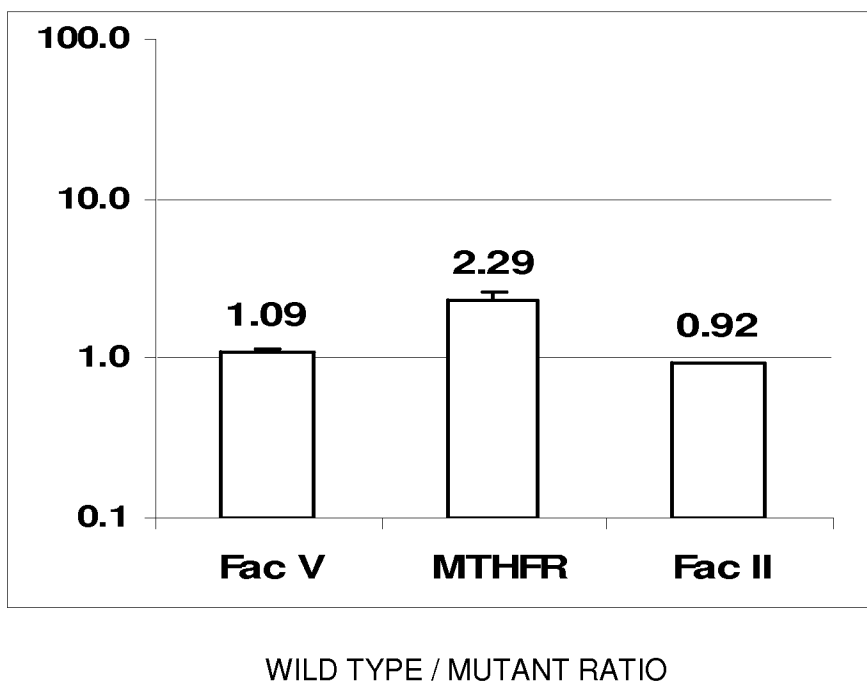
FIG. 13A**FIG. 13B**

FIG. 14A

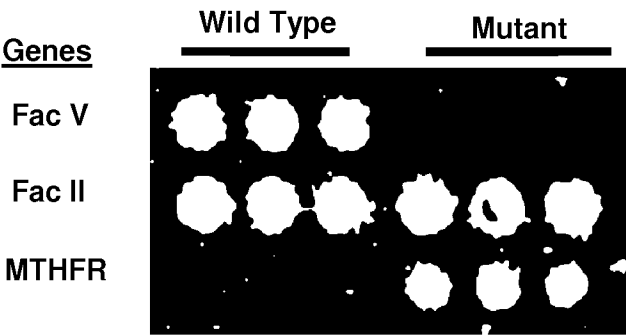


FIG. 14B

IMAGED WITH VERIGENE ID, 100MS.

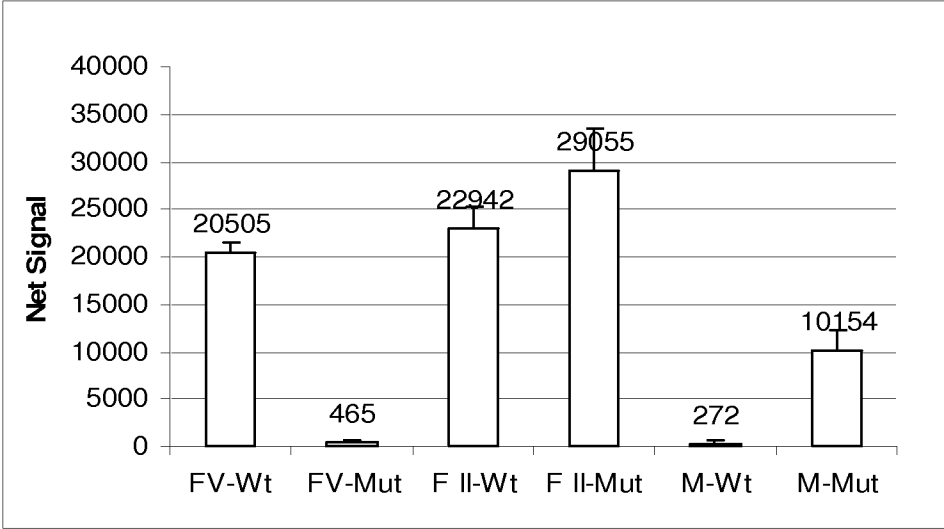
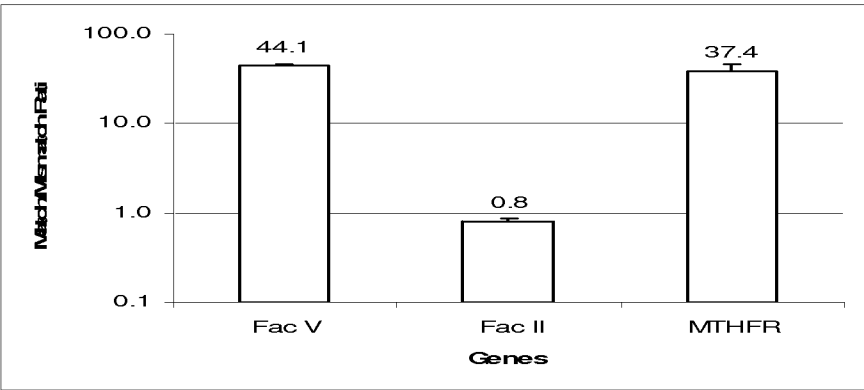


FIG. 14C

Match/Mismatch Ratio

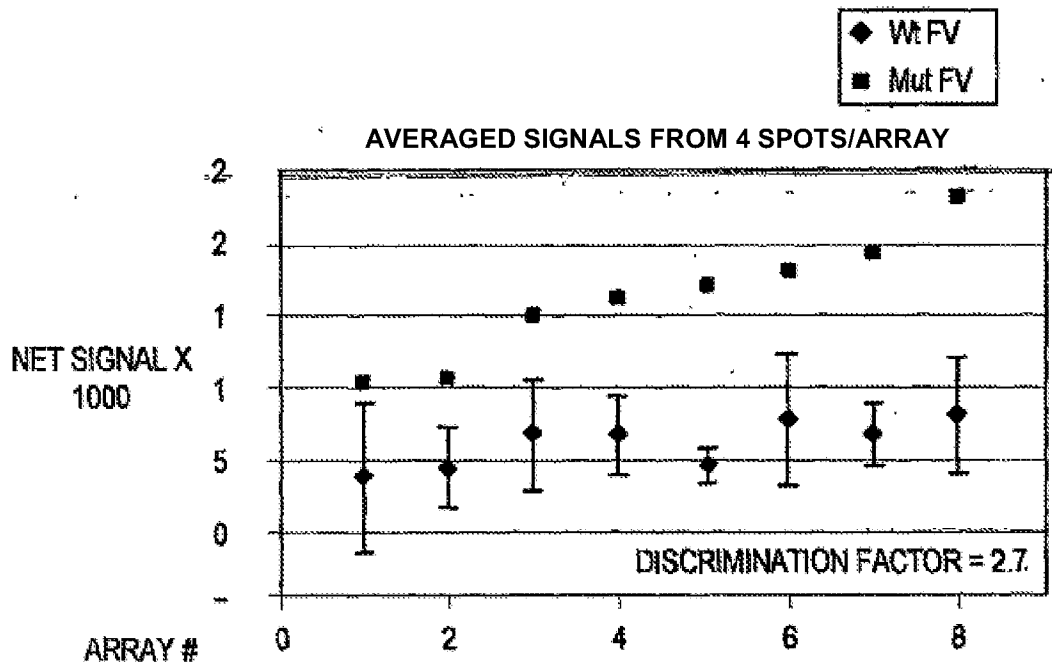
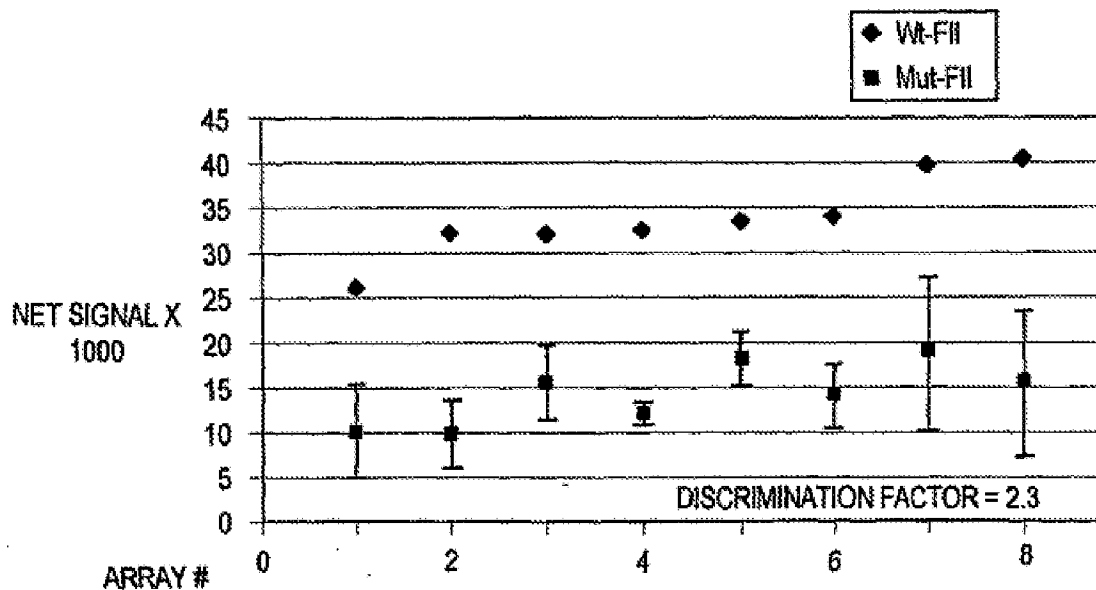


DIRECT SNP DETECTION WITH UNAMPLIFIED DNA

Application No.: 10/735,357

Applicant: Yijia P. BAO

Replacement Sheet: Page 15 of 28

FIG. 15A**FIG. 15B**

DIRECT SNP DETECTION WITH UNAMPLIFIED DNA

Application No.: 10/735,357

Applicant: Yijia P. BAO

Replacement Sheet: Page 16 of 28

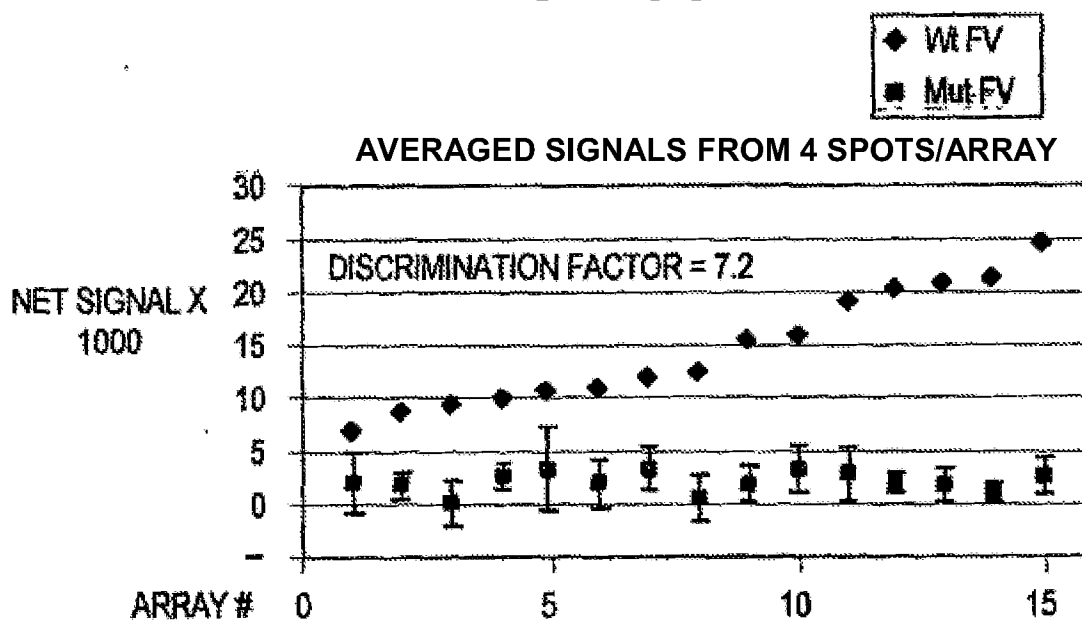
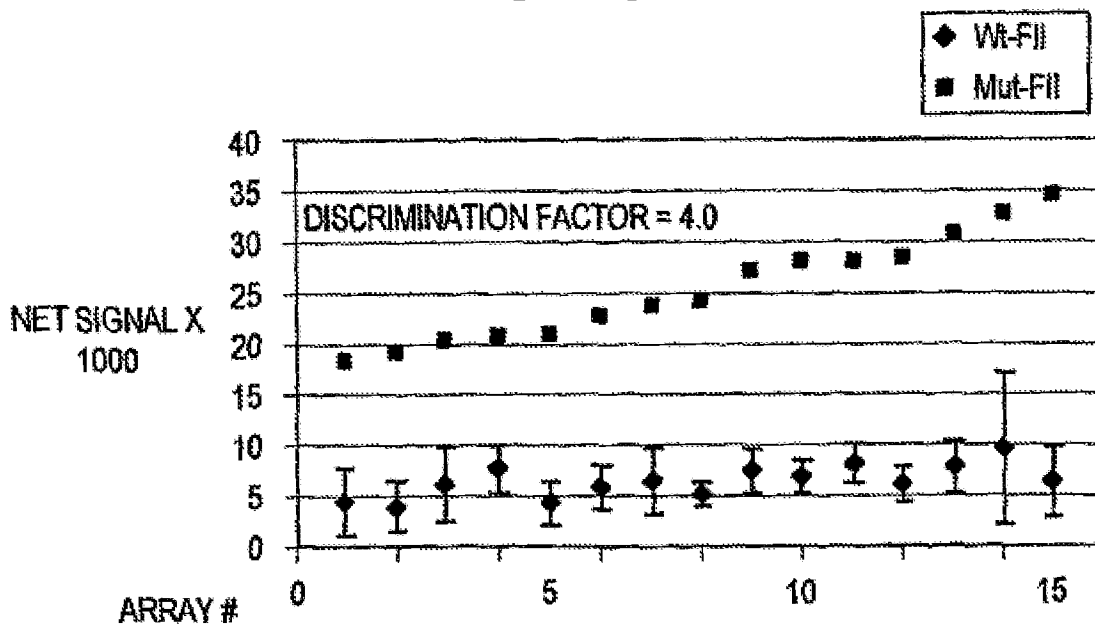
FIG. 15C**FIG. 15D**

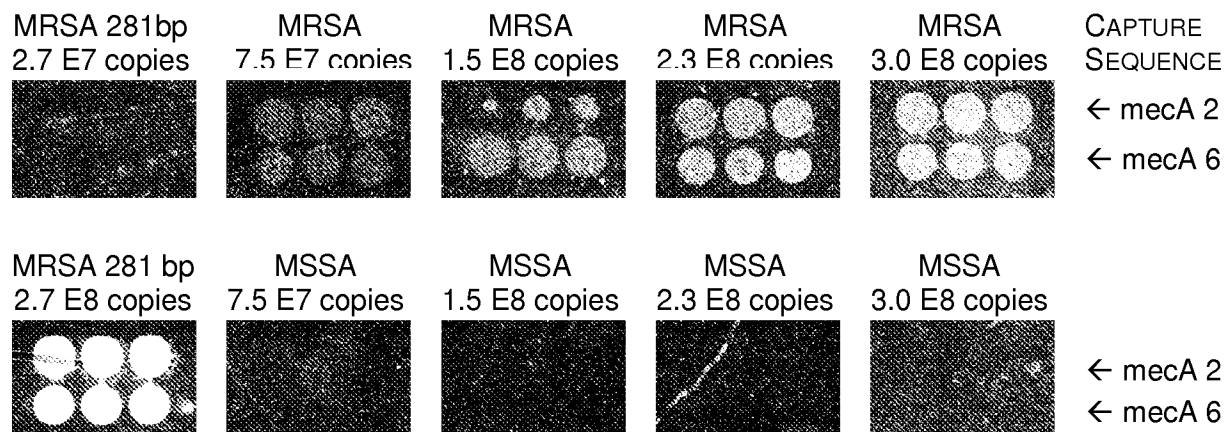
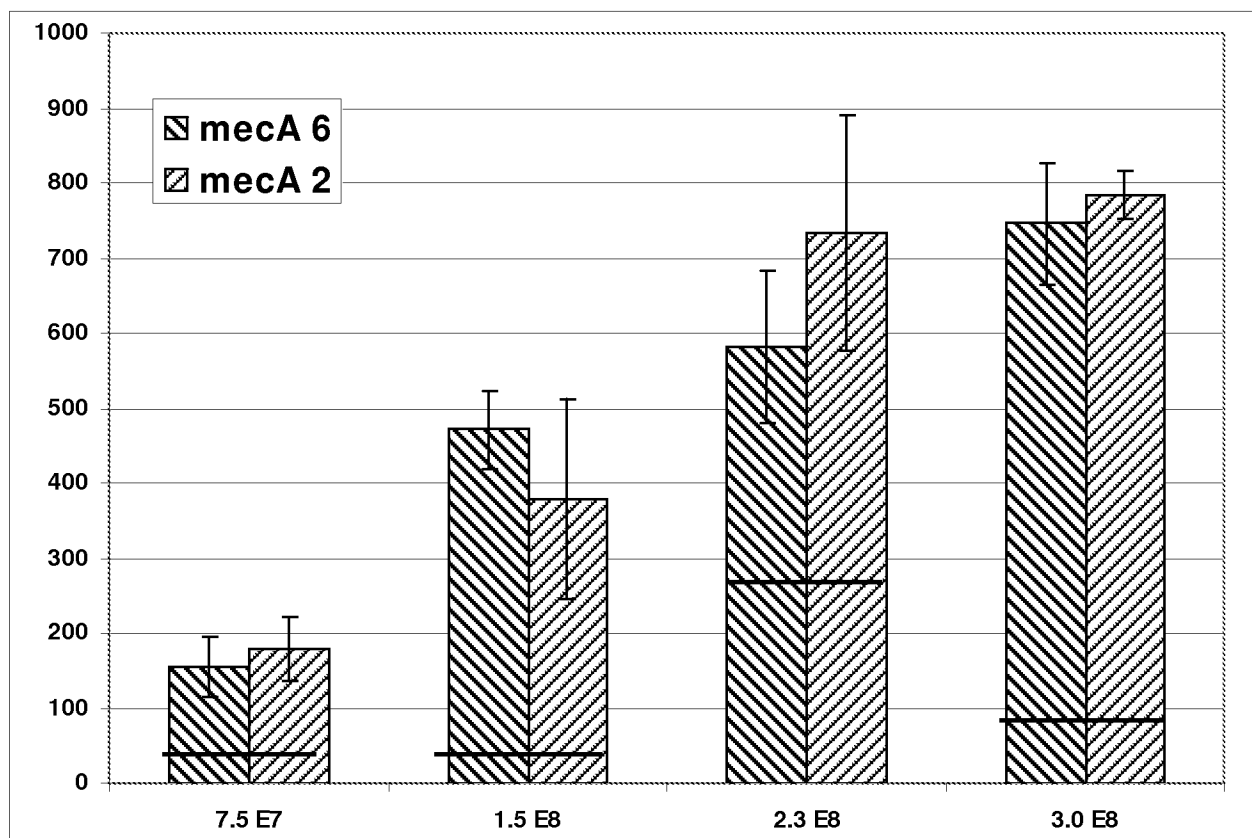
FIG. 16A**FIG. 16B**

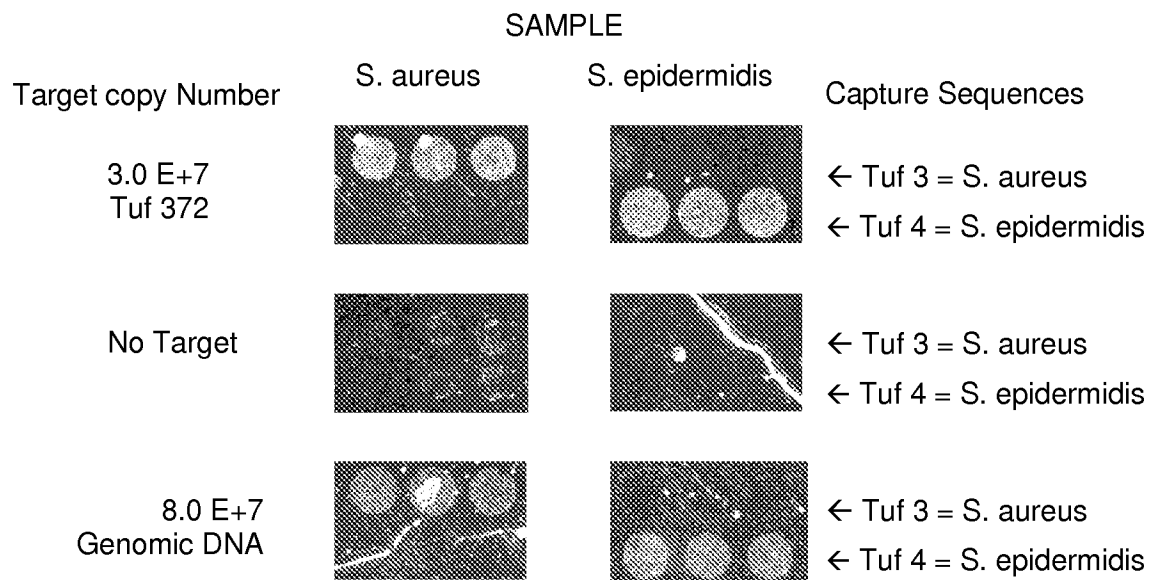
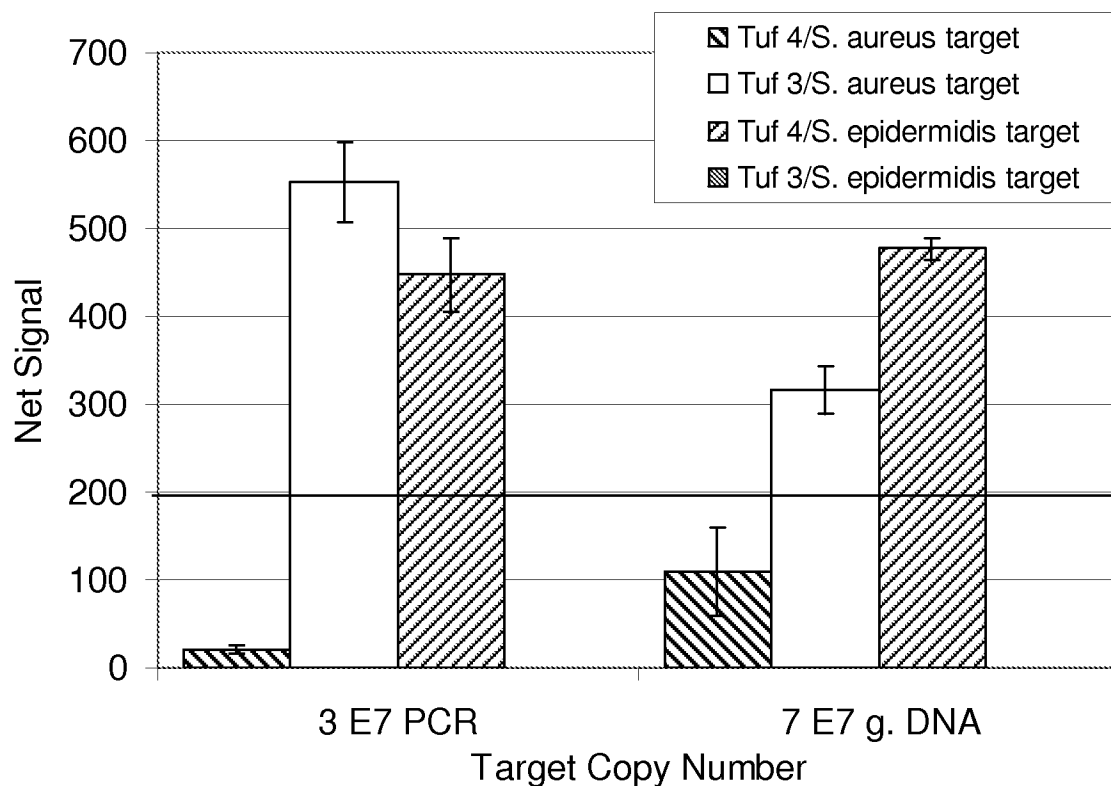
FIG. 17A**FIG. 17B**

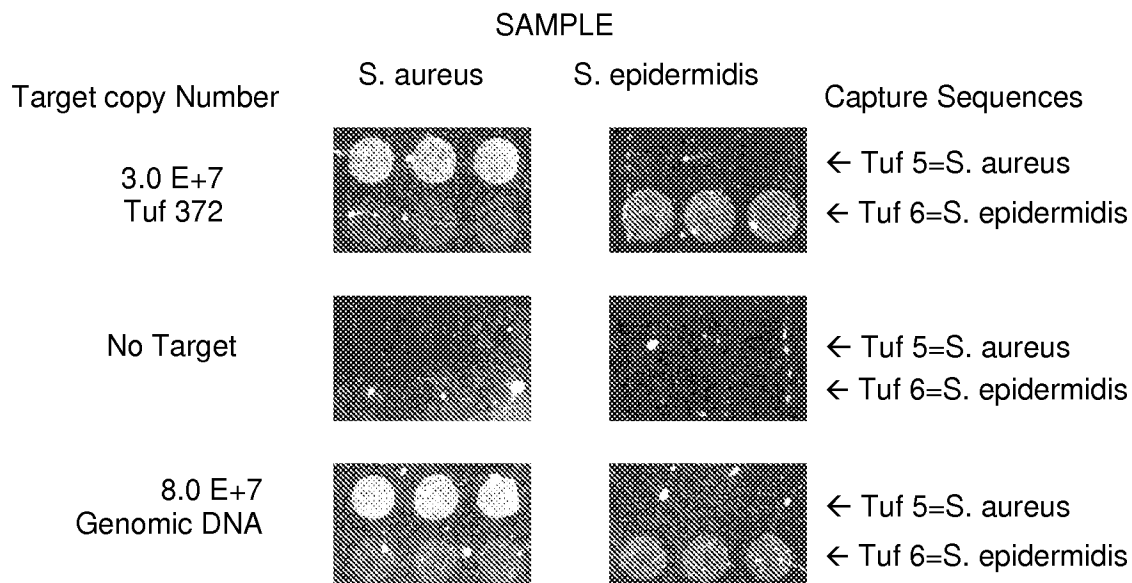
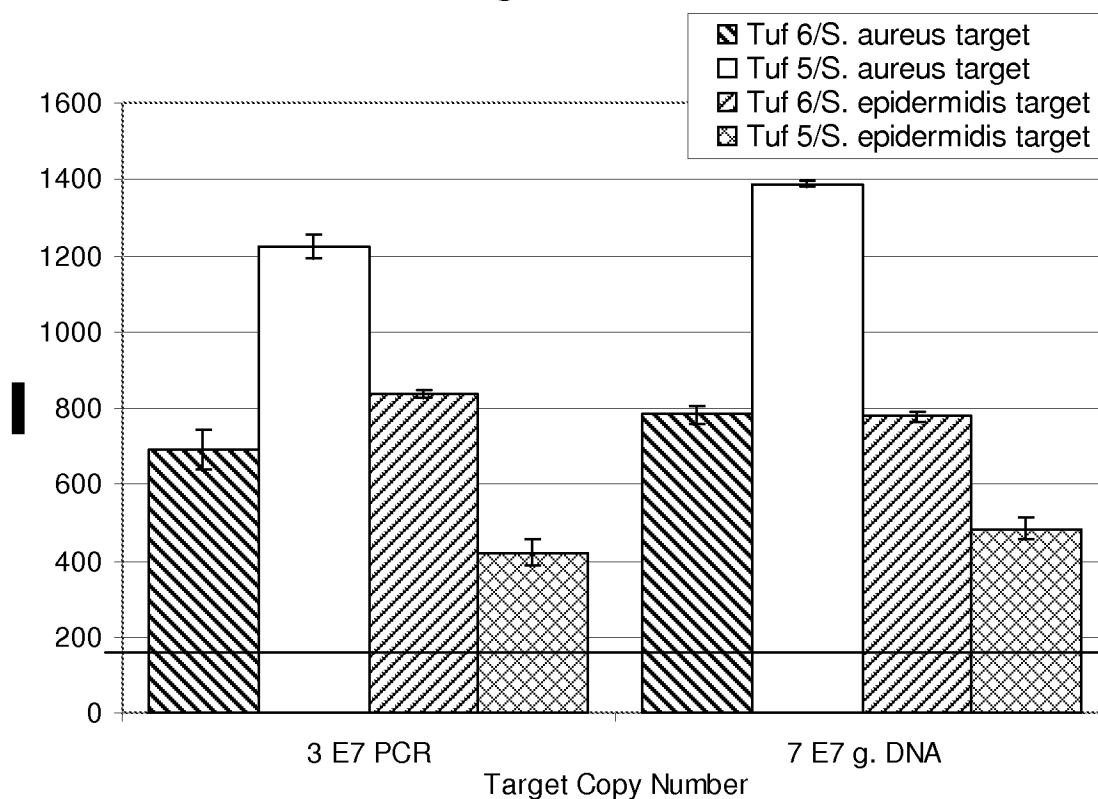
FIG. 17C**FIG. 17D**

FIG. 18

Name	Template Species	gene	Length	Sequence 5'→3' (coding strand)
mecA 281	<i>S. aureus</i>	<i>mecA</i>	281	<p>ATCCACCCTCAAACAGGTGAATTATTAGCATTGTAAGCACACCTTCATATGACGTCTATCCATTTATGTATGGCAT GAGTAACGAAGAATATAATAAATTAACCGAAGATAAAAAAGAACCTCTGCTCAAGTCAATCCAGATTACAACCTTCA CCAGGTTCAACTCAAAAAATATTAACAGCAATGATTGGGTAAATAACAAAACATTAGACGATAAAACAAGTTATA AAATCGATGGTAAAGGTTGGCAAAAAGATAAATCTTGGGGTGGTTACAACGT</p>
Coa	<i>S. aureus</i>	coagulase	480	<p>CGAGACCAAGATTCAACAAGCCAAGTGAAACAAATGCATACAACGTAACGACAAATCAAGATGGCACAGTATCATA CGGAGCTCGCCCAACACAAAACAAGCCAAGTGAAAAACGCATATAACGTAACAACACATGCAAATGGTCAAGTAT CATACGGTGCTCGCCCAACACAAAACAAGCCAAGCAAAACAAATGCATACAACGTAACAACACATGCAAATGGTCAA GTATCATATGGCGCTCGCCCGACACAAAAAAGCCAAGCAAAACAAATGCATATAACGTAACAACACATGCAAATG GTCAAGTATCATACGGAGCTCGCCCGACATACAAGAAGCCAAGCGAAACAAATGCATACAACGTAACAACACATGC AAATGGTCAAGTATCATATGGCGCTCGCCCGACACAAAAAAGCCAAGCGAAACAAACGCATATAACGTAACAACA CATGCAGATGGTACTGCGACAT</p>
Tuf 142	<i>S. aureus</i>	<i>Tuf</i>	142	<p>GTGGTCAAGTATTAGCTGCTCCTGGTTCAATTACACCACATACTGAATTCAAAGCAGAAGTATACGTATTATCAAA AGACGAAGGTGGACGTCACACTCCATTCTTCTCARACTATCGTCCACAATTCTATTTCCGTACTAC</p>
Tuf 372	<i>S. aureus</i>	<i>Tuf</i>	372	<p>TGATGCCRGTTGAGGACGTATTCTCAATCACTGGTCGTGGTACTGTTGCTACAGGCCGTGTTGAACGTGGTCAAAT CAAAGTTGGTGAAGAAGTTGAAATCATCGGTTTACATGACACATCTAAAACAACGTGTACAGGTGTTGAAATGTTT CGTAAATTATTAGACTACGCTGAAGCTGGTGACAACATTGGTGCATTATTACGTGGTGTGCTCGTGAAGACGTAC AACGTGGTCAAGTATTAGCTGCTCCTGGTTCAATTACACCACATACTGAATTCAAAGCAGAAGTATACGTATTATC AAAAGACGAAGGTGGACGTCACACTCCATTCTTCTCARACTATCGTCCACAATTCTATTTCCGTACTAC</p>
Tuf 372	<i>S. epidermidis</i>	<i>Tuf</i>	372	<p>TGATGCCAGTTGAGGACGTATTCTCAATCACTGGTCGTGGTACTGTTGCTACAGGCCGTGTTGAACGTGGTCAAAT CAAAGTTGGTGAAGAAGTTGAAATCATCGGTATGCACGAACTTCTAAAACAACGTGTACTGGTGTAGAAATGTTT CGTAAATTATTAGACTACGCTGAAGCTGGTGACAACATCGGTGCTTTATTACGTGGTGTGTCACGTGAAGACGTAC AACGTGGTCAAGTATTAGCTGCTCCTGGTTCTATTACACCACACACAAAATTCAAAGCTGAAGTATACGTATTATC TAAAGATGAAGGTGGACGTCACACTCCATTCTTCTACTAATACTATCGCCACAATTCTATTTCCGTACTAC</p>
Tuf 372	<i>S. saprophyticus</i>	<i>Tuf</i>	372	<p>TGATGCCAGTTGAGGACGTATTCTCAATCACTGGTCGTGGTACTGTTGCTACAGGCCGTGTTGAACGTGGTCAAAT CAAAGTCGGTGAAGAAATCGAAATCATCGGTATGCAAGAAGAATCAAGCAAAACAACGTGTACTGGTGTAGAAATG TTCCGTAAATTATTAGACTACGCTGAAGCTGGTGACAACATTGGTGCATTATTACGTGGTGTTCACGTGATGATG TACAACGTGGTCAAGTTTTAGCTGCTCCTGGTACTATCACACCACATACAAAATTCAAAGCGGATGTTTACGTTTT ATCTAAAGATGAAGGTGGTCGTACATACGCCATTCTTCTACTAATACTACCGCCACAAATTCTATTTCCGTACTACTGAC</p>
16S	<i>Staphylococcus</i>	16S	451	<p>CGCCGCGTGAGTGATGAAGGTCTTCGGATCGTAAACTCTGTTATTAGGGAAGAACAACGTGTAAGTAACTGTGC ACGTCTTGACGGTACCTAATCAGAAAGCCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCAAGC GTTATCCGGAATTATTGGGCGTAAAGCGCGCGTAGGCGGTTTTTTAAGTCTGATGTGAAAGCCACGGCTCAACCG TGGAGGGTCATTGGAAACTGGAAACTTGAGTGCAGAAGAGGAAAGTGAATTCCATGTGTAGCGGTGAAATGCGC AGAGATATGGAGGAACACCAAGTGGCGAAGGCGACTTTCTGGTCTGTAAGTACGCTGATGTGCGAAAGCGTGGGGA TCAAACAGGATTAGATACCCTGGTAGTCCACGCCGTAAACGATGAGTGCTAAGTGTTAGGGGGTTTTCCGCC</p>

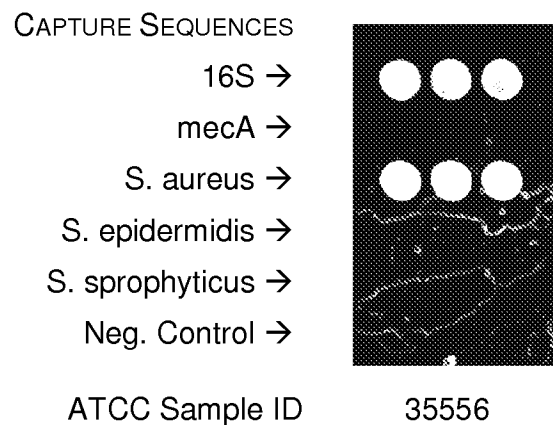
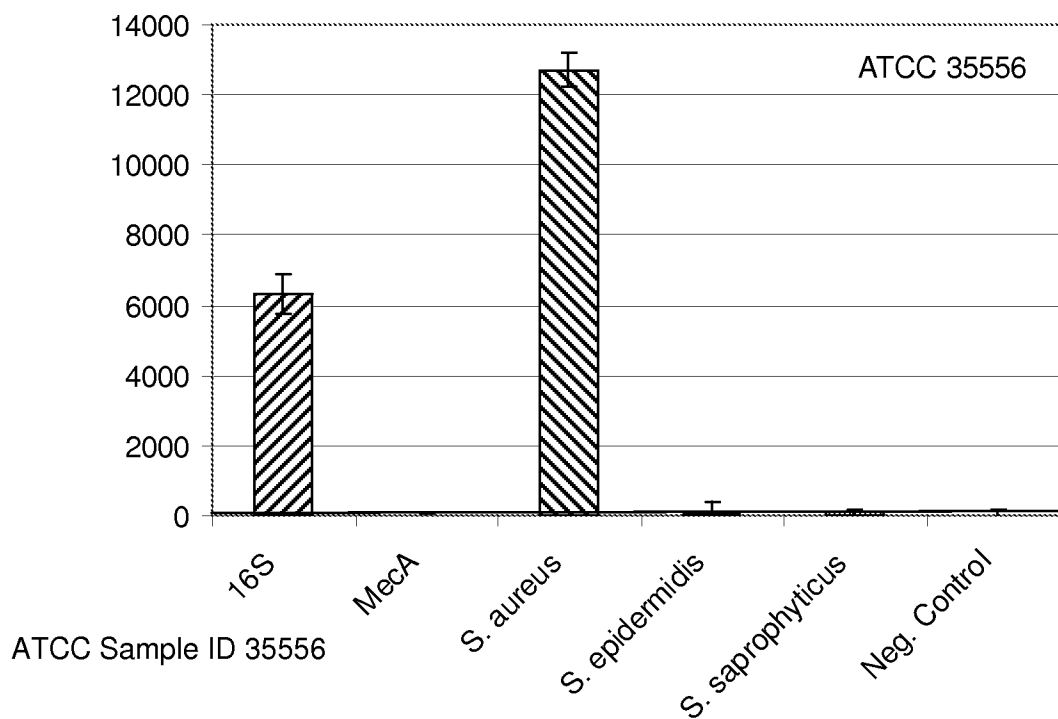
FIG. 19A**FIG. 19B**

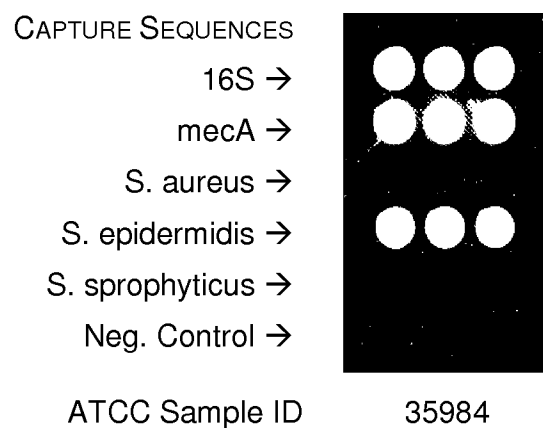
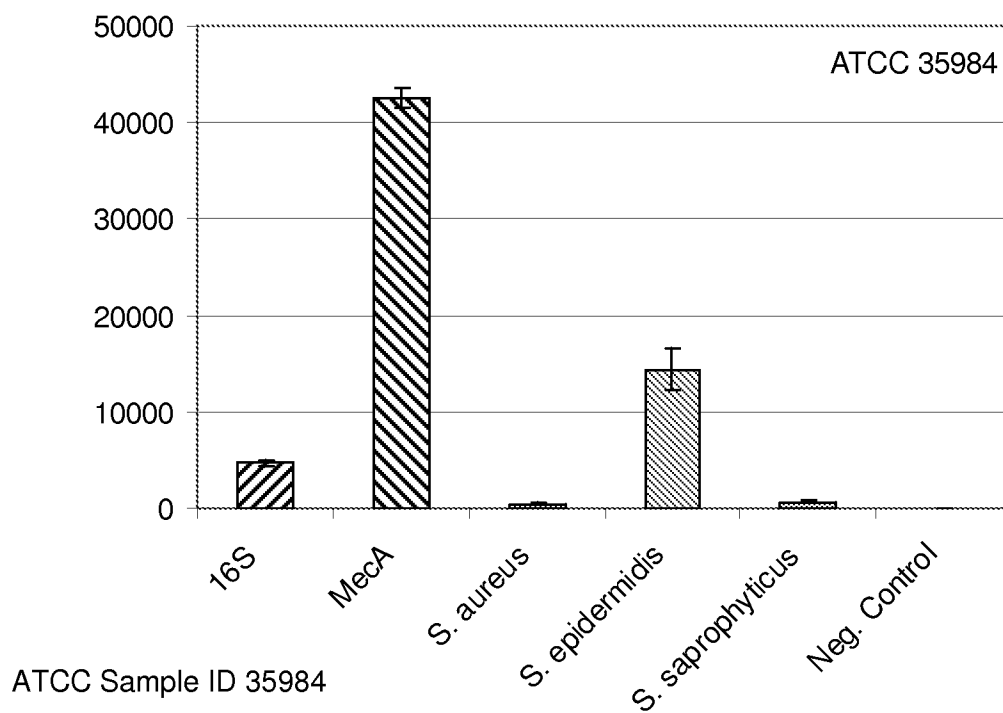
FIG. 19C**FIG. 19D**

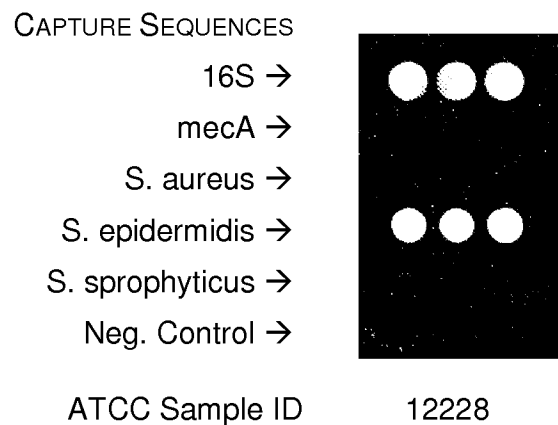
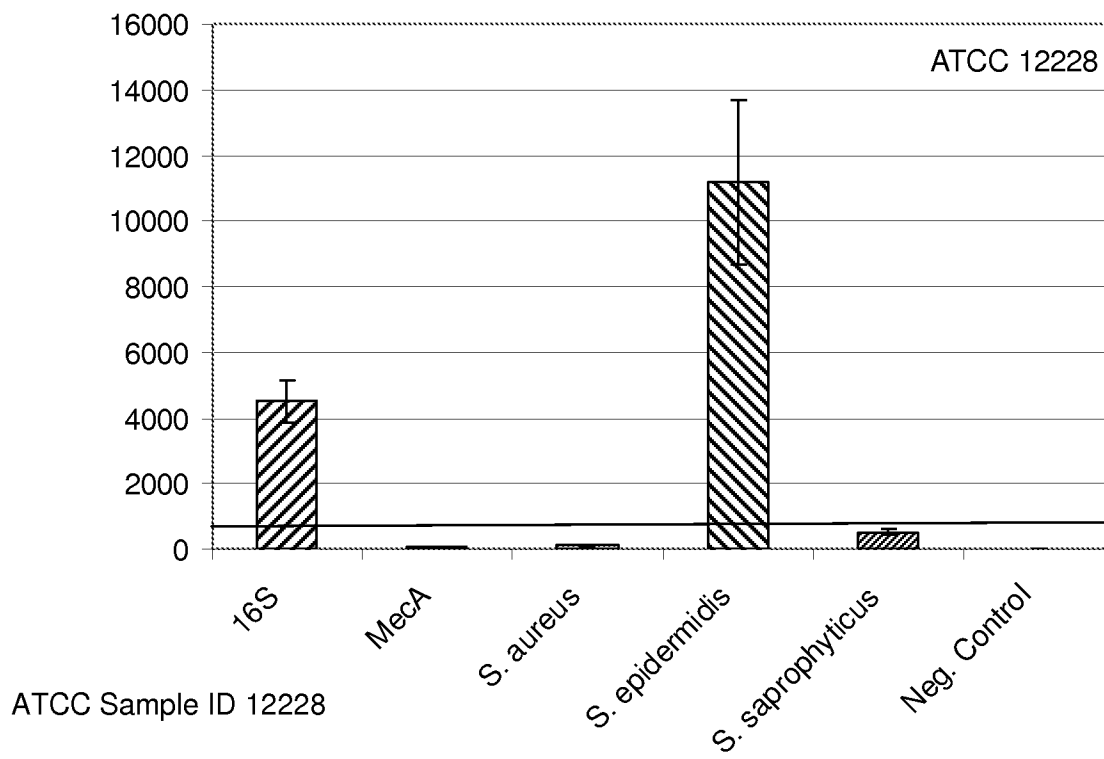
FIG. 19E**FIG. 19F**

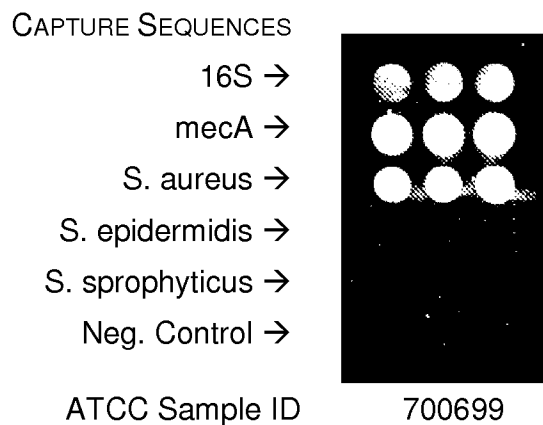
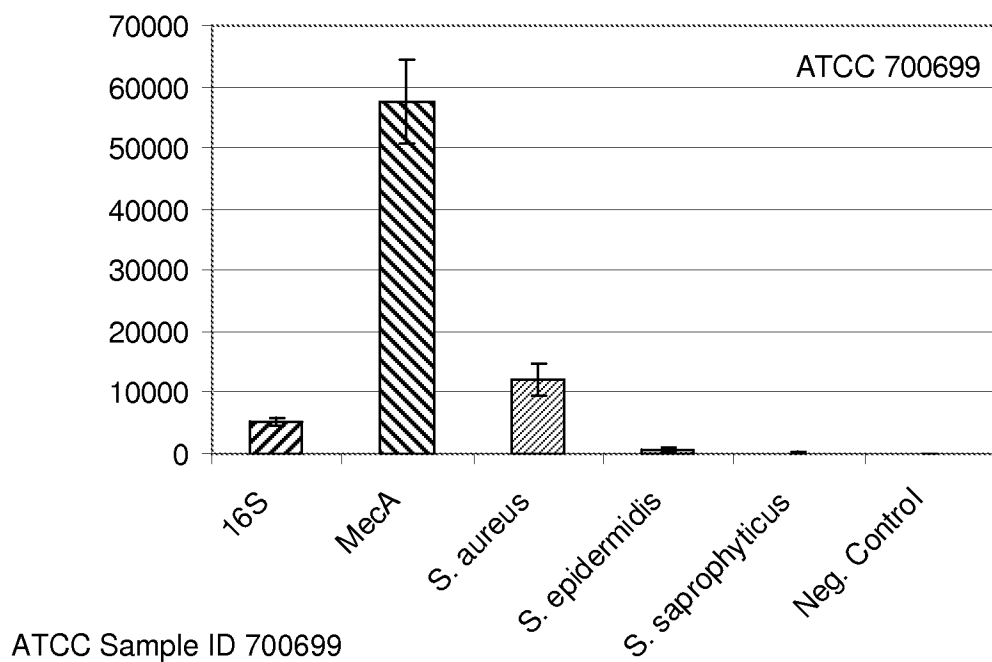
FIG. 19G**FIG. 19H**

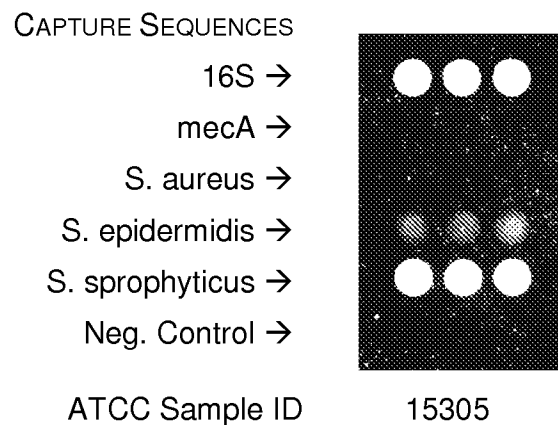
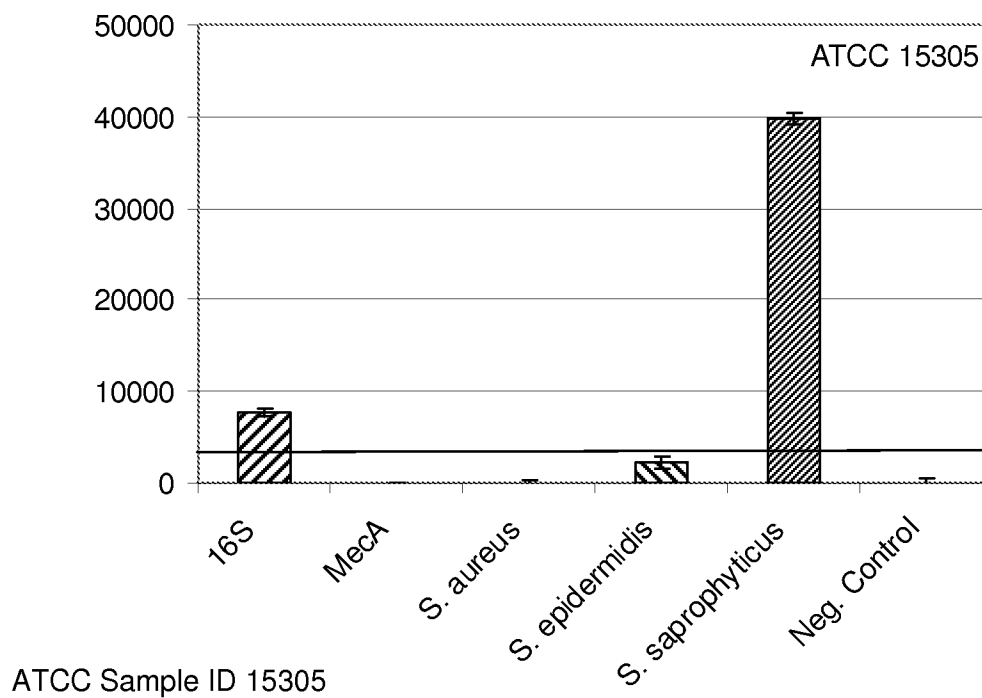
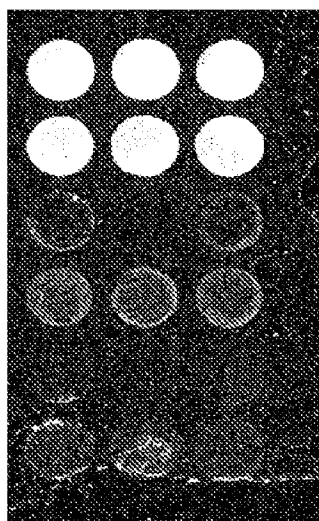
FIG. 19I**FIG. 19J**

FIG. 20A

ATCC 35984

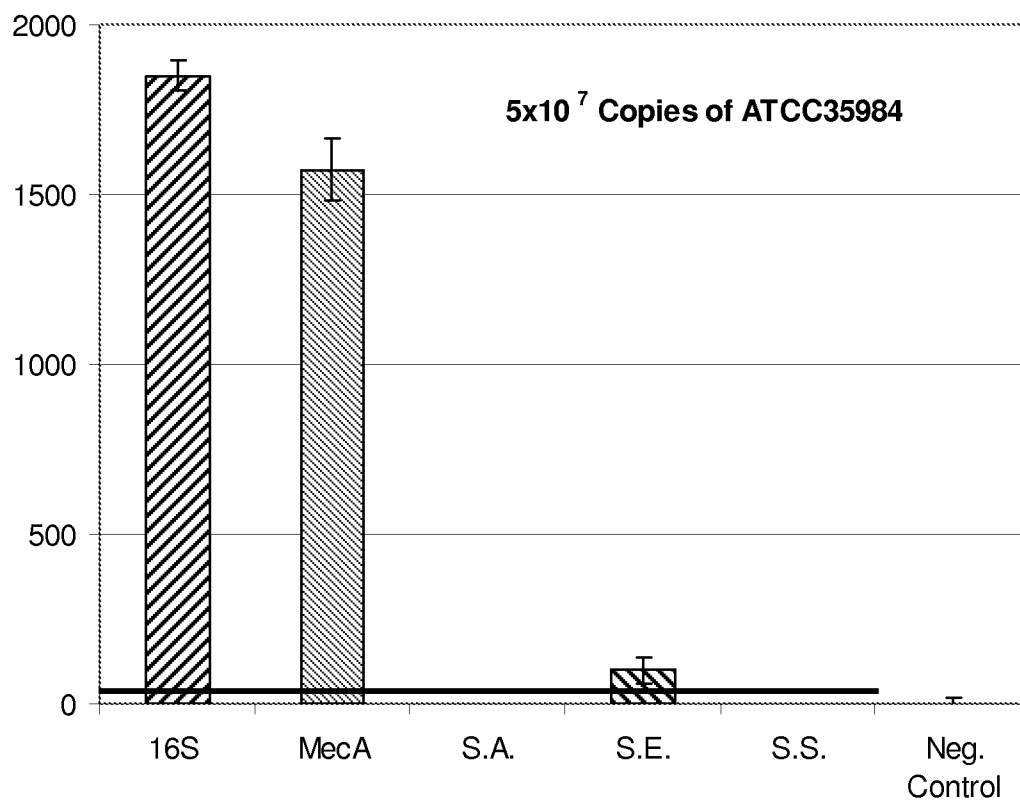
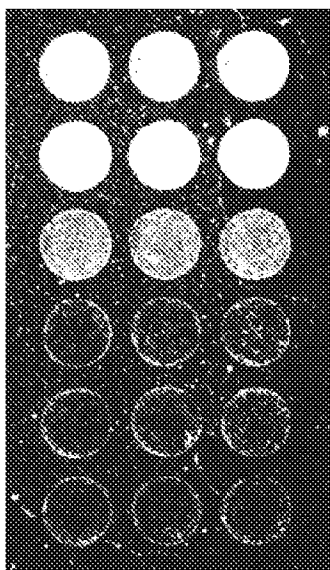
FIG. 20B

FIG. 20C

ATCC 700699

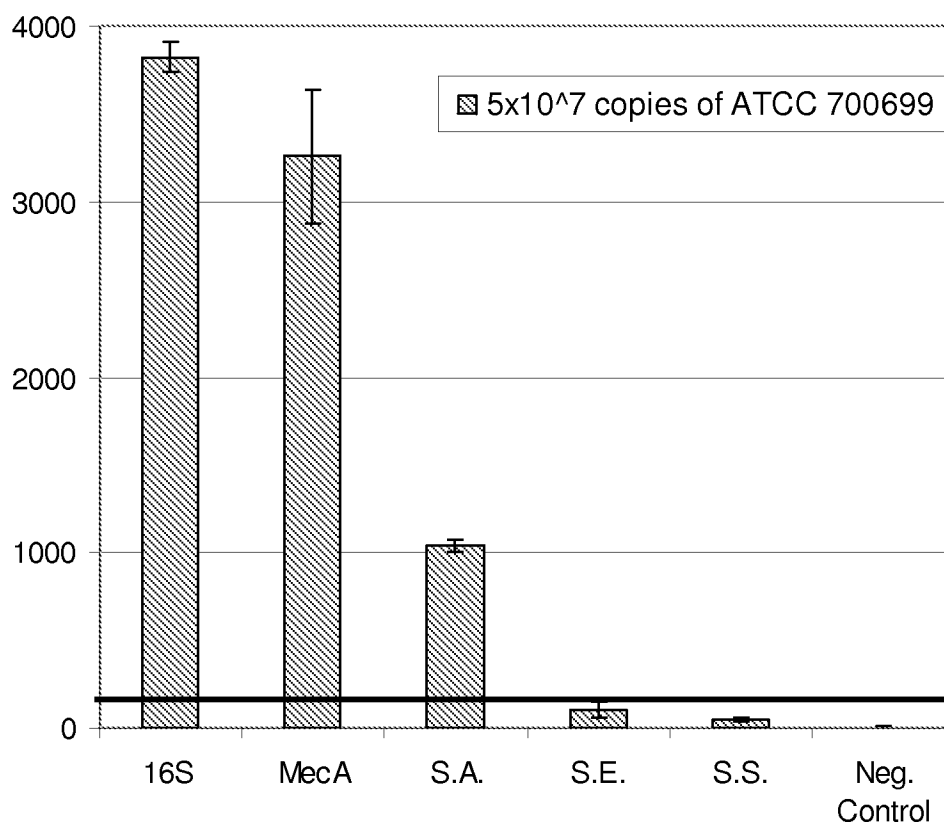
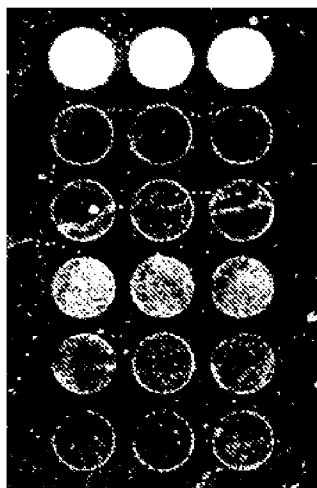
FIG. 20D

FIG. 20E

ATCC 12228

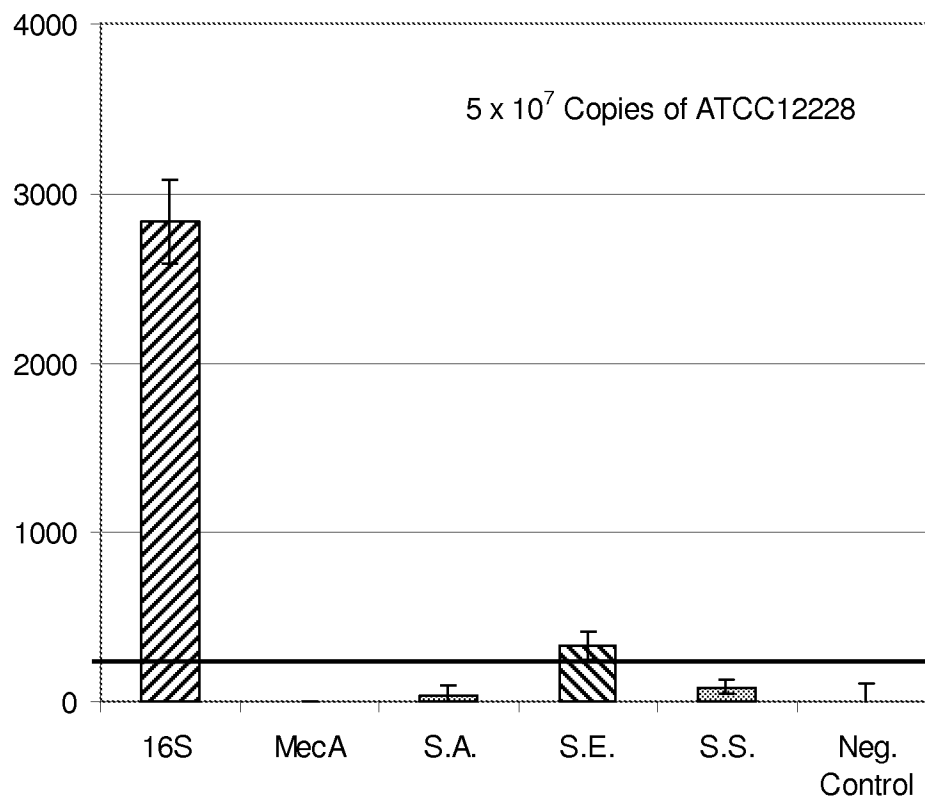
FIG. 20F

FIG. 21